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PN - JP8008947 A 19960112  
PD - 1996-01-12  
PR - JP19940164664 19940623  
OPD - 1994-06-23  
TI - COMMUNICATION DATA DIAGNOSTIC DEVICE FOR UNILATERAL  
LOOP TRANSMISSION LINE  
IN - KAWADA SHINYA  
PA - FUJI ELECTRIC CO LTD  
IC - H04L12/437

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TI - Unidirectional loop data transmission line diagnostic device for error detection and elimination - compares stage number read from header data with contents of internal register or most recent previous stage number and erases communication data when these two do not mutually correspond

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PA - (FJIE ) FUJI ELECTRIC CO LTD

IC - H04L12/437

AB - J08008947 The unidirectional loop data transmission line connects a primary station (1) with several sub offices (2-6). The primary station notifies notice message (M) regarding stage number which changes periodically to sub office. The stage number is stored in the internal register provided in the sub office. When communication data D is transmitted from the self station to other office, the most recent stage number stored, is added to the header of the communication data.

- The communication data is transmitted from the primary station to the sub offices. When the data is received at a sub office, the stage number in the header is compared with the stage number stored in the internal register. When these two identical, the transmission is continued. When these two stage numbers are different, the communication data is erased.
- ADVANTAGE - Detects fault quickly. Increases speed of address check and overall transmission.(Dwg.1/5)

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TI - COMMUNICATION DATA DIAGNOSTIC DEVICE FOR UNILATERAL LOOP TRANSMISSION LINE

AB - PURPOSE:To attain a high speed transmission of data through the entire transmission line by quickly checking a destination of communication data to be relayed.

- CONSTITUTION:A master station<sup>1</sup> and slave stations 2-6 are installed on a unilateral loop transmission line 10 and the master station 1 reports a stage number notice message M changing periodically to the slave stations 2-6. Each of the slave stations 2-6 stores its stage number to an internal register and adds the newest stage number to be stored to a header of communication data D when each sends the communication data D addressed to other stations. Upon the receipt of the communication data D for relay purpose, the master station 1 and the slave stations 2-6 read a stage number added to the header of the communication data D to discriminate whether or not the stage number matches the newest or just preceding stage number in the internal register. When the stage number matches, the communication data D are sent to a succeeding station, and when the stage number does not match, the communication data D are deleted.

I - H04L12/437